

Attachment No. 2

Internall Combustion Units

**MERIT ENERGY COMPANY
R. HOBLEIN NO. 2 GAS FACILITY
JIM HOGG COUNTY, HEBRONVILLE, TEXAS
PERMIT BY RULE FILING**

COMPRESSOR ENGINE EXHAUST CALCULATIONS

Sample Calculation

Emission factor (lb/mmmbtu) * Heat Input (but/hp-hr) / 453.6 g = LB/HR Emission Rate

F-1905 WAUKESHA

<u>Constituent</u>	<u>Emission Factor</u>	<u>Horsepower Rating</u>	<u>BTU/ hp-hr</u>	<u>Emission Rate</u> LB/HR	<u>TONS/YR</u>
NOx	2.21	181.00	9,100.0000	3.6401	15.9436
CO	3.72	181.00	9,100.0000	6.1272	26.8372
VOct	0.36	181.00	9,100.0000	0.5897	2.5827
VOCnm	0.03	181.00	9,100.0000	0.0488	0.2135

F-817GU WAUKESHA

<u>Constituent</u>	<u>Emission Factor</u>	<u>Horsepower Rating</u>	<u>BTU/ hp-hr</u>	<u>Emission Rate</u> LB/HR	<u>TONS/YR</u>
NOx	8.50	85.00	7,000.0000	5.0575	22.1519
CO	38.00	85.00	7,000.0000	22.6100	99.0318
VOct	2.30	85.00	7,000.0000	1.3685	5.9940
VOCnm	0.35	85.00	7,000.0000	0.2083	0.9121

Sample Calculation

Emission factor (g/hp-hr) * Horsepower Rating (hp) / 453.6 g = LB/HR Emission Rate

AJAX DPC-280

<u>Constituent</u>	<u>Emission Factor</u>	<u>Horsepower Rating</u>	<u>Service Time %</u>	<u>Emission Rate</u> LB/HR	<u>TONS/YR</u>
NOx	9.50	269.00	1.0000	5.6338	24.6761
CO	1.20	269.00	1.0000	0.7116	3.1170
VOct	5.00	269.00	1.0000	2.9652	12.9874
VOCnm	1.10	269.00	1.0000	0.6523	2.8572

AJAX DPC-180

<u>Constituent</u>	<u>Emission Factor</u>	<u>Horsepower Rating</u>	<u>Service Time %</u>	<u>Emission Rate</u> LB/HR	<u>TONS/YR</u>
NOx	5.00	173.00	1.0000	1.9070	8.3525
CO	1.00	173.00	1.0000	0.3814	1.6705
VOct	9.50	173.00	1.0000	3.6232	15.8698
VOCnm	1.00	173.00	1.0000	0.3814	1.6705

Emission Rate Totals

NOx	16.2384	71.1241
CO	29.8302	130.6565
VOct	8.5466	37.4340
VOCnm	1.2907	5.6534